Clean Version of Claims

1. A smart instrument for use in a surgery system, comprising:

a housing;

a plurality of light emitting diodes coupled to the housing and being adapted to fire independently; and

a wireless transceiver adapted to communicate with the surgery system, wherein bi-directional communication of the smart instrument with the surgery system is solely through a wireless communication system.

2. The smart instrument of claim 1, wherein the smart instrument includes a memory circuit for storing information related to the smart instrument.

3. The smart instrument of claim 2, wherein the smart instrument is adapted to transmit via the transceiver the information stored on the memory circuit in response to a received signal.

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4. The smart instrument of claim 1, wherein the smart instrument includes a status light.

5. The smart instrument of claim 1, wherein the smart instrument is adapted to be for a specific purpose.

6. The smart instrument of claim 1, wherein the smart instrument is adapted to be used as a pointer.

7. The smart instrument of claim 1, wherein the smart instrument is adapted to be used as a scalpel.

8. The smart instrument of claim 1, wherein the smart instrument is adapted to be used as a probe.

9. The smart instrument of claim 1, wherein the smart instrument is adapted to be used as a validation tool for other smart instruments.

10. The smart instrument of claim 1, wherein the smart instrument is adapted to be used as a suction device.

11. The smart instrument of claim 1, wherein the smart instrument is adapted to be used as a pin.

12. The smart instrument of claim 1, wherein the smart instrument is adapted to be used as a clamp.

13. The smart instrument of claim 1, wherein the smart instrument is adapted to be interchangeably coupled with a plurality of generic instruments.

14. The smart instrument of claim 1, wherein the smart instrument is adapted to be interchangeably coupled with a patient tracking system.

15. The smart instrument of claim 1, wherein the smart instrument is adapted to be interchangeably coupled with a patient tracking system and at least one generic instrument.

16. The smart instrument of claim 1, wherein the smart instrument includes an activation button.

17. The smart instrument of claim 16, wherein the smart instrument is adapted to transmit via the transceiver information stored on a memory circuit in response to a received signal.

18. The smart instrument of claim 17, wherein the information includes a status of the activation button.

19. The smart instrument of claim 1, wherein the smart instrument includes a plurality of control buttons for remotely controlling the surgery system.

20. The smart instrument of claim 19, wherein the smart instrument is adapted to transmit via the transceiver information stored on a memory circuit in response to a received signal.

A1 21. The smart instrument of claim 20, wherein the information includes a status of control buttons.

22. The smart instrument of claim 1, wherein the smart instrument includes an up button, a select button, and a down button.

23. A smart instrument for use in a surgery system, comprising:

a housing;

a plurality of light emitting diodes coupled to the housing and being adapted to fire independently;

a wireless transceiver adapted to communicate with the surgery system;

an activation button; an adapter interface coupled to the housing; and

a release button operatively coupled to the adapter interface, wherein the smart instrument is adapted to be interchangeably coupled with a patient tracking system and at least one generic instrument, and wherein bi-directional communication of the smart instrument with the surgery system is solely through a wireless communication system.

24. The smart instrument of claim 23, wherein the smart instrument further a memory circuit for storing information related to the smart instrument.

25. The smart instrument of claim 24, wherein the information stored on the memory circuit is updated by the surgery system.

26. The smart instrument of claim 24, wherein the information stored on the memory circuit includes calibration information.

27. The smart instrument of claim 26, wherein the calibration information is updateable using a calibration station.

28. The smart instrument of claim 24, wherein the smart instrument further includes a validation point for validating other smart instruments.

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29. A smart instrument for use in a surgery system, comprising:

a housing;

a plurality of light emitting diodes coupled to the housing and being adapted to fire independently;

a wireless transceiver adapted to communicate with the surgery system;

a plurality of control buttons for remotely controlling the surgery system; and

a work tip coupled to the housing, wherein bi-directional communication of the smart instrument with the surgery system is solely through a wireless communication system.

30. The smart instrument of claim 29, wherein the smart instrument further a memory circuit for storing information related to the smart instrument.

31. The smart instrument of claim 30, wherein the information stored on the memory circuit is updated by the surgery system.

32. The smart instrument of claim 30, wherein the information stored on the memory circuit includes calibration information.

33. The smart instrument of claim 32, wherein the calibration information is updateable using a calibration tool.

34. The smart instrument of claim 29, wherein the smart instrument further includes a validation point for validating other smart instruments.

Please insert the following new claims 80-106:

-- 80. The smart instrument of claim 2, wherein the information stored on the memory circuit is updated by the surgery system.

81. The smart instrument of claim 2, wherein the information stored on the memory circuit includes calibration information.

82. The smart instrument of claim 81, wherein the calibration information is updateable using a calibration station.

83. The smart instrument of claim 9, wherein the smart instrument further includes a validation point for validating other smart instruments.

84. The smart instrument of claim 24, wherein the smart instrument is adapted to transmit via the transceiver the information stored on the memory circuit in response to a received signal.

85. The smart instrument of claim 23, wherein the smart instrument includes a status light.

86. The smart instrument of claim 23, wherein the smart instrument is adapted to be interchangeably coupled with a patient tracking system.

87. The smart instrument of claim 23, wherein the smart instrument is adapted to be interchangeably coupled with a patient tracking system and at least one generic instrument.

88. The smart instrument of claim 23, wherein the smart instrument includes an activation button.

89. The smart instrument of claim 88, wherein the smart instrument is adapted to transmit via the transceiver information stored on a memory circuit in response to a received signal.

90. The smart instrument of claim 89, wherein the information includes a status of the activation button.

91. The smart instrument of claim 30, wherein the smart instrument is adapted to transmit via the transceiver the information stored on the memory circuit in response to a received signal.

92. The smart instrument of claim 29, wherein the smart instrument includes a status light.

93. The smart instrument of claim 29, wherein the smart instrument is adapted to be used as a pointer.

94. The smart instrument of claim 29, wherein the smart instrument is adapted to be used as a scalpel.

95. The smart instrument of claim 29, wherein the smart instrument is adapted to be used as a probe.

96. The smart instrument of claim 29, wherein the smart instrument is adapted to be used as a validation tool for other smart instruments.

97. The smart instrument of claim 29, wherein the smart instrument is adapted to be used as a suction device.

98. The smart instrument of claim 29, wherein the smart instrument is adapted to be used as a pin.

99. The smart instrument of claim 29, wherein the smart instrument is adapted to be used as a clamp.

100. The smart instrument of claim 29, wherein the smart instrument includes an activation button.

101. The smart instrument of claim 100, wherein the smart instrument is adapted to transmit via the transceiver information stored on a memory circuit in response to a received signal.

102. The smart instrument of claim 101, wherein the information includes a status of the activation button.

103. The smart instrument of claim 29, wherein the smart instrument includes a plurality of control buttons for remotely controlling the surgery system.

104. The smart instrument of claim 103, wherein the smart instrument is adapted to transmit via the transceiver information stored on a memory circuit in response to a received signal.

105. The smart instrument of claim 104, wherein the information includes a status of control buttons.

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106. The smart instrument of claim 29, wherein the smart instrument includes an up button, a select button, and a down button. --